PATENT COOPERATION TREATY

PCT

REC'D	0	2	MAR	200	14
WIPO					PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		СТУДРЕА/416		
International application No.	International filing date (day)	/month/year)	Priority date (day/month/year)		
PCT/IB 2002/005798	27.12.2002		31.12.2001		
International Patent Classification (IPC)		PC .			
H04Q 7/36, H04B 1/71	3. HO4L 12/56		<u>,</u>		
H04Q //30, H04B 1//1	<i>5</i> ,				
Applicant					
Nokia Corporation et					
This report is the international part of the Authority under Article 35 and the Arti	disustinitied to me appreaut acc	ording to	s International Preliminary Examining 36.		
2. This REPORT consists of a total	·	cluding this cover	r sheet.		
			sheets, as follows:		
a. (sent to the applica	ant and to the International Bur	eau) a total of			
and/or she	ets containing rectifications auti	awings which hav horized by this Au	e been amended and are the basis of this report athority (see Rule 70.16 and Section 607 of the		
· ·	ative Instructions).	which this Author	rity considers contain an amendment that goes		
beyond th	e disclosure in the international	application as file	ed, as indicated in item 4 of Box No. I and the		
Suppleme	ntal Box.				
b. (sent to the Intern	ational Bureau only) a total of (indicate type and	number of electronic carrier(s))		
	* · * · · * · · *	a accusonce lighting	and/or tables related dictelo, in compared		
readable form onl	y, as indicated in the Supplement	ntal Box Relating	to Sequence Listing (see Section 802 of the		
Administrative In					
	ns relating to the following item	s:			
Box No. I Bas	is of the report				
Box No. II Prid	ority		1 turbial applicability		
Box No. III No.	n-establishment of opinion with	regard to novelty	, inventive step and industrial applicability		
Box No. IV Lac	ck of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Ce	rtain documents cited				
Box No. VI Certain defects in the international application					
	rtain observations on the interna		1		
Box 140. VIII					
Date of submission of the demand		Date of completic	on of this report		
Date of Submission of the Commission					
20.07.2003		19.02.200	04		
30.07.2003		Authorized officer			
Name and mailing address of the IPI Patent- och registreringsver	rket				
Box 5055		Deter He	lman /MN		
S-102 42 STOCKHOLM	ΩΩ	Peter Hedman/MN Telephone No. +46 8 782 25 00			
Facsimile No. +46 8 667 72	Tomory 2004)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/005798

Box	No. I	Basis of the report
1.	With rotherw	regard to the language, this report is based on the international application in the language in which it was filed, unless vise indicated under this item.
		This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2.	furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been hed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" re not annexed to this report):
	\boxtimes	the international application as originally filed/furnished
	Ш	the description:
		pages as originally filed/furnished
		pages* received by this Authority on received by this Authority on
		the claims: pages as originally filed/furnished
		pages as originary meantimission pages* as amended (together with any statement) under Article 19
		pages* received by this Authority on
		pages* received by this Authority on
	П	the drawings:
	لـــــا	pages as originally filed/furnished
		pages* received by this Authority on
		pages* received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
*	If item	n 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/005798

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement 1. Statement YES Claims Novelty (N) Claims YES **Claims** Inventive step (IS) NO Claims YES Industrial applicability (IA) . Claims NO Claims

2. Citations and explanations (Rule 70.7)

The claimed method and the associated Bluetooth node address the problem of avoiding interference from persistent interferers. The problem is solved by way of maintaining a black-list of worse performing frequency bands, and by transmitting dummy packets in a pattern which depends on the black-list.

Documents cited in the International Search Report:

D1: WO 02 30022 A
D2: WO 01 47308 A
D3: WO 99 09671 A
D4: EP 0 182 762 A

The cited documents represent the general state of the art. The invention defined in claims 1-4 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method of avoiding interference caused from persistent interferers in a frequency hopping spread spectrum communication system, or a Bluetooth node adapted to operate in accordance with such a method. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-4 is novel and is considered to involve an inventive step. The invention is industrially applicable.